

# General Specifications

Voltage Transmitter (non-isolated)

**1. GENERAL**

This signal conditioner converts DC current or voltage signals to current or voltage signals.

**2. SPECIFICATIONS**

IO Specifications	
Input signal	DC voltage or current signals
Input resistance	1 MΩ for voltage input. 100Ω ~ 1kΩ for current input
Permissible applied voltage	±30V DC max
Output signal	DC current or voltage signal
Zero point adjustment range	±3% of span
Span adjustment range	±6% of span
Standard performance	
Precision rating	±0.1% of span
Response speed	150ms 63% response (10~90%)
Insulation resistance	100MΩ min (at 500V DC) between input~output~power supply (DC drive) input~output~power supply~ground (AC drive)
Voltage withstand	500V AC/minute between input~output~power supply (DC drive) 1500V AC/minute between input~output~power supply~ground (AC drive)
Ambient temperature and humidity	Normal operating condition: 0~50°C, 5~90% RH Operating limit: -10~60°C, 5~95% RH Storage condition: -40~70°C, 5~95% RH (No condensation)
Power supply voltage	85~264V AC 47~63Hz, 24V DC±10%
Effect of power supply voltage fluctuation	±0.1% max of span per 85~264V AC or 24V DC±10% fluctuation
Effect of change in ambient temperature	±0.2% max of span per 10°C change in temperature
Current dissipation	24V DC 102mA (WH4A-1), 80mA (WH4V-1)
Power dissipation	100V AC 10VA (WH4A-2), 6VA (WH4V-2)
Mountings and dimensions	
Material	Case: ABS plastic
Boards	Both sides glass-epoxy
Mounting methods	Rack, wall, or DIN rail
Connection method	M4-screw terminals
External dimensions	72 x 48 x 127 mm (h x w x d)
Weight	DC drive: approx. 150g, AC drive : approx. 300g
Accessories	
Tag number labels: 1	GS JW12-04E
Mounting blocks: 2	4th Edition : Sep. 2004(KP)
	M4 mounting screws: 4

WH4□-□□-□ \* B

TYPE NO. \_\_\_\_\_

**OUTPUT SPECIFICATION**

A: Current

V: Voltage

**INPUT SIGNAL**

A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC	7: -10~-+10V DC
H: 10~50mA DC	0: (custom) voltage signal (±300V max)
Z: (custom) current signal (150mA max)	

**OUTPUT SIGNAL**

WH4A	WH4V
A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC	7: -10~-+10V DC
Z: (custom) current signal (24mA max)	0: (custom) voltage signal (±10V max)

**POWER SUPPLY**

1: 24V DC ±10% 2: 85~264V AC

**High Voltage Withstand Specifications**

The JUXTA W Series is also available in 2000V AC voltage withstand specifications. Contact your dealer for details.

**OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE**

WH4A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC		0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC	5MΩ min	0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1 mA DC		0~15kΩ
Others where I <sub>100</sub> =24mA max		(15/I <sub>100</sub> )Ω max

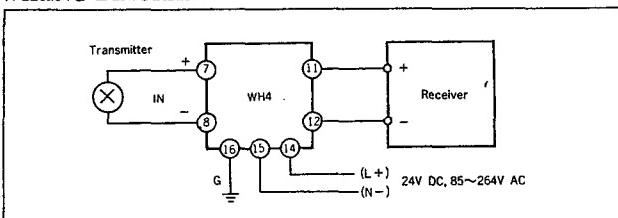
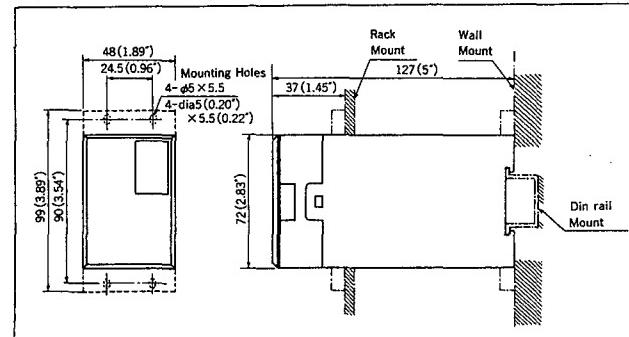
I<sub>100</sub>: 100% output current

WH4V (DC Voltage Output)		
Output Signal	Output Resistance	Permissible Load Resistance
0~10mV DC		250kΩ min
0~100mV DC	100Ω max	
0~1V DC		2kΩ min
0~10V DC		10kΩ min
0~5V DC		2kΩ min
1~5V DC		2kΩ min
-10~-+10V DC		10kΩ min
Others where V <sub>100</sub> ≤10mV	100Ω max	250kΩ min
V <sub>100</sub> >10mV	1Ω max	10kΩ min

V<sub>100</sub>: 100% output voltage

DUAL OUTPUT SPECIFICATIONS		
Model	1st Output (selectable)	2nd Output
WH4A	4~20mA DC 2~10mA DC 1~5mA DC 0~20mA DC 0~16mA DC 0~10mA DC 0~1mA DC	1~5V DC
WH4V	0~10mV DC 0~100mV DC 0~1V DC 0~10V DC 0~5V DC 1~5V DC -10~-+10V DC	1~5V DC

The JUXTA W Series allows dual output.  
Enter/DO after the model code when ordering.

**WIRING DIAGRAM****EXTERNAL DIMENSION**

Subject to change without notice for grade up quality and performance